INTERNATIONAL SEARCH REPORT

International application No.

	•	PCT/JP2	2004/0120/1
	CATION OF SUBJECT MATTER 7 H01M8/04, H01M8/10		
According to In	ternational Patent Classification (IPC) or to both nations	al classification and IPC	
B. FIELDS SI	EARCHED		
	mentation searched (classification system followed by cl H01M8/04, H01M8/10	assification symbols)	
Jitsuyo		ent that such documents are included in thoroku Jitsuyo Shinan Koho itsuyo Shinan Toroku Koho	e fields searched 1994–2004 1996–2004
Electronic data WPI/L	base consulted during the international search (name of	data base and, where practicable, search to	erms used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
· Y	JP 58-186170 A (Hitachi, Ltd 31 October, 1983 (31.10.83), Claims; page 3, upper left coupper right column, line 16; & US 4493878 A Column 2, line 39 to column 3 Figs. 1 to 2; Claims	olumn, line 12 to Figs. 1 to 2	1,11 2,5,6,9
Y	JP 61-107666 A (Hitachi, Ltd 26 May, 1986 (26.05.86), Claims; Fig. 1 & US 4629664 A Fig. 6; Claims	d.),	2,5,6,9
× Further d	ocuments are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "I." document which may throw doubts on priority claim(s) or which is		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed 		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
	al completion of the international search ober, 2004 (05.10.04)	Date of mailing of the international sea 19 October, 2004 (rch report 19.10.04)
	ng address of the ISA/ se Patent Office	Authorized officer	
Facsimile No. orm PCT/ISA/2	10 (second sheet) (January 2004)	Telephone No.	
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International application No.
PCT/JP2004/012071

	DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-24557 U (Toppan Printing Co., Ltd.), 30 March, 1993 (30.03.93), Claims; Figs. 1 to 2 (Family: none)	
A	JP 2001-283888 A (Toshiba Corp.), 12 October, 2001 (12.10.01), Claims; Fig. 1 (Family: none)	1-12
A	JP 2000-314376 A (Mannesmann AG.), 14 November, 2000 (14.11.00), Claims; Fig. 1 & US 6610433 B1 Fig. 1; Claims	1-12
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